

There are many turbines used in hydroelectric power plants such as the Francis turbine, Pelton turbine, Crossflow turbine, Turgo turbine and Kaplan turbine. We have also a Parsons turbine used in steam – powered electric power plants.

5 If we try to investigate the turbines powered by water or steam we can make a clear findings that the blades are properly spaced to each other and there is a gap or a space between the blades. The gap is where the fluid (gas or liquid) flow. The experts are right in designing turbines that are tilted and have space between the blades. They understand also that the space between the blades of the turbine where the usable fluid flow is normal and natural.

10 However, the design of the present turbines seem to be perfect but the disadvantage is that there are lots of energy wastage on the spaces between the blades which could be used as an additional power to spin the turbine.

The TZUY TURBINE has a promising solution to prevent the enormous energy loss in the production of electrical energy in hydroelectric and
15 steam-powered electric plants.

It has only one blade that moves as the rotor rotate which is parallel to the rotor's shaft and the fluid concentration within the TZUY TURBINE is comparable to the concentration of hydraulic fluid in the hydraulic jack. That means there is no leakage of working fluid inside the system. The TZUY TURBINE can
20 expect higher power output compared to the existing and newly improved turbines.